

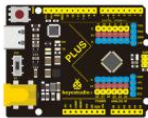
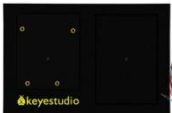
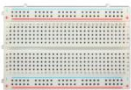


Project 1: Hello World



1. Project Introduction

For Arduino starters, we will begin with something simple. In this project, you will only need a Plus development board and a USB cable to complete the "Hello World!" project. It is not only a communication test of your Arduino board and the PC, but also a primer project in the Arduino world!

2. Project Hardware

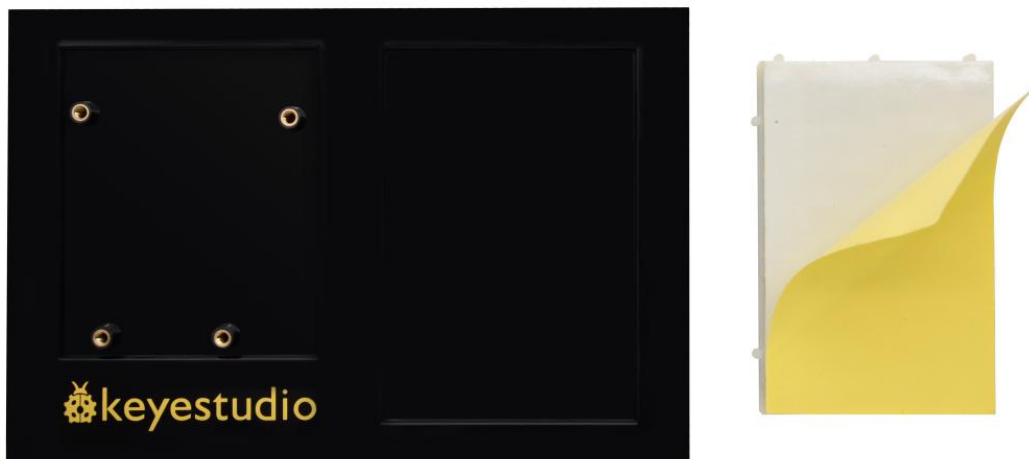
				
Plus	Board	400-Hole	USB	Hello World

Board*1	Holder	Breadboard	Cable*1	Card*1
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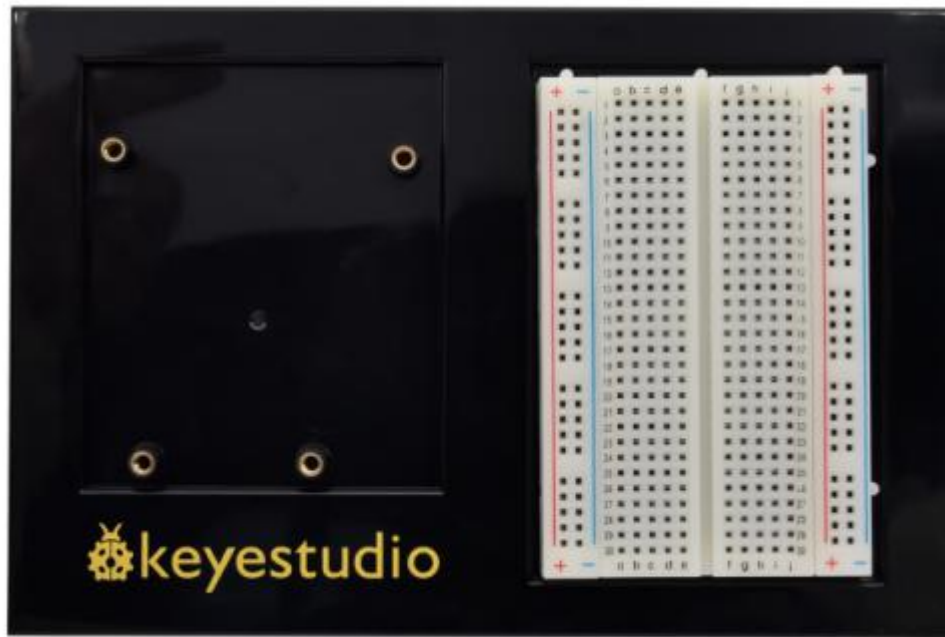
3. Assembly Project Platform

Before starting the project, we will install the Plus Development Board and 400-Hole breadboard onto the board holder.

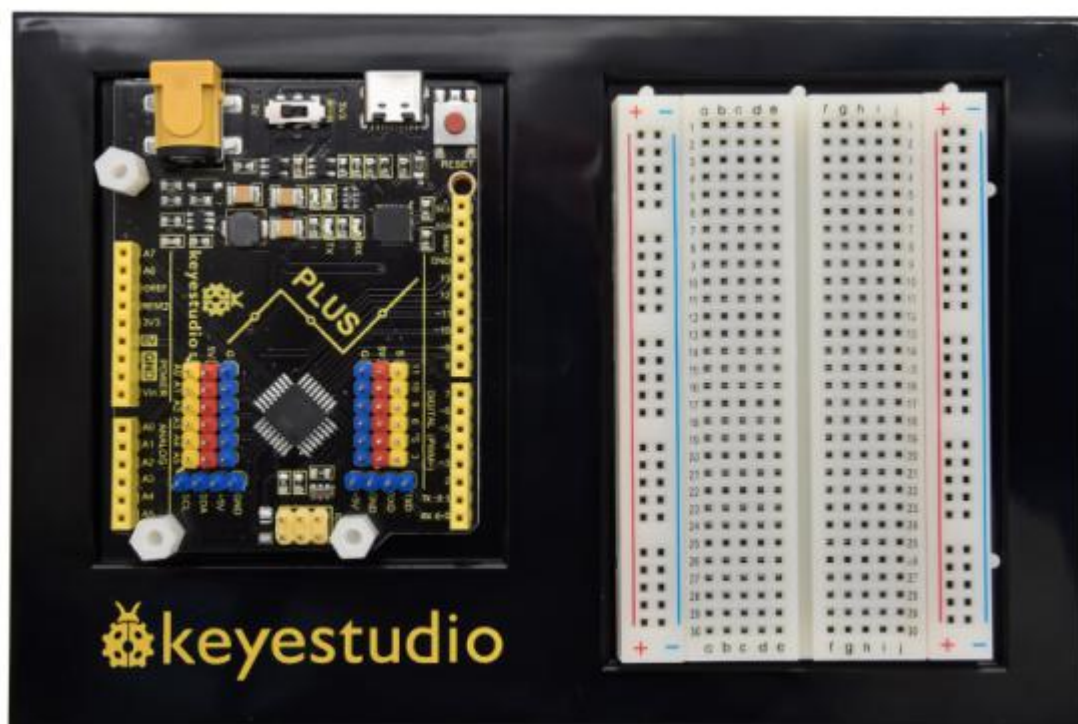
1. Remove the adhesive sticker of the breadboard.



2. Attach the breadboard to the board holder



3. Use three plastic columns to fix the PLUS development board on the board holder.



The assembly of the project platform is complete.

4. Project Code

A simple **If () statement** programming control structure will be used. Arduino uses a serial monitor for displaying information such as print statements, sensor data, and so on. This is a very powerful tool for debugging long codes. Now for your first code!

```
/*  
keyestudio STEM Starter Kit  
Project 1  
Hello World  
http://www.keyestudio.com  
*/  
int val;//define variable val  
void setup()  
{  
  Serial.begin(9600);// set the baud rate at 9600 .  
}  
void loop()  
{
```

val=Serial.read();// read the instruction or character from
PC to Arduino, and assign them to Val.

if(val=='R')// determine if the instruction or character
received is "R".

{ // if it's "R",

Serial.println("Hello World!");// display"Hello World ! "
string.

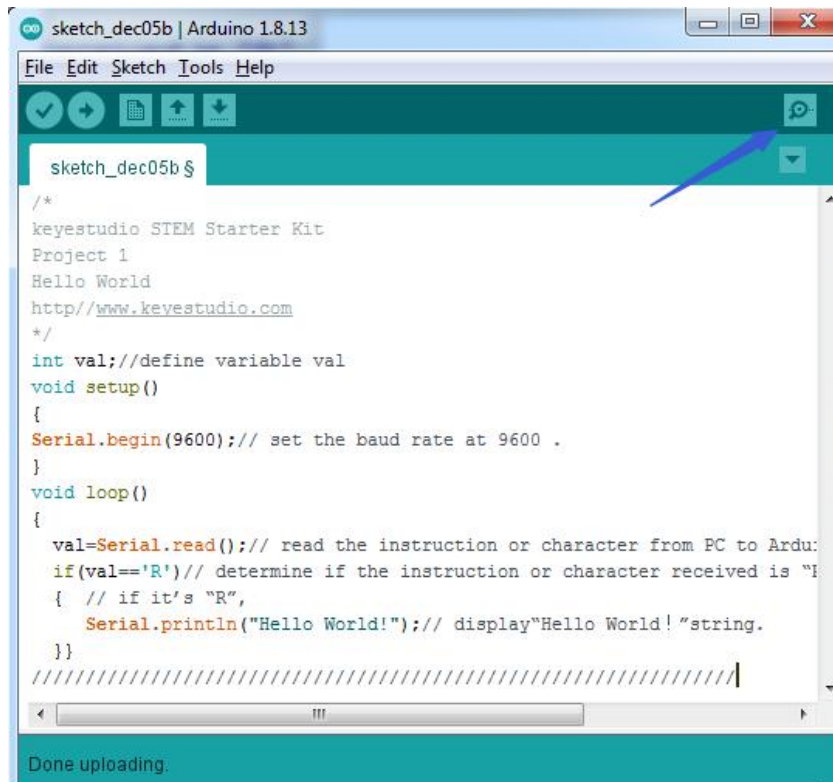
}}

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5.Project Result



Double-click icon to enter serial monitor.



Every time you enter an "R" in the text box and click "send", the onboard LED on the plus board will flash once, and the serial monitor will display a Hello World!

